



Model 2144 POTS/ISDN Splitter Shelf Installation Guide

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This guide provides the basic information required to install the Comtest Model 2144 POTS/ISDN Splitter Shelf in a Central Office location.

Installation

The 2144 requires 3U (5.25 inches) of rack space and is centre mounted. The shelf is supplied with mounting brackets and hardware to allow installation in a 19 inch or 23 inch rack. By repositioning the mounting brackets, the shelf can be installed with the connectors front or rear facing. With the connectors facing the rear, a depth of 10 inches would be sufficient to mount the shelf with cables installed.

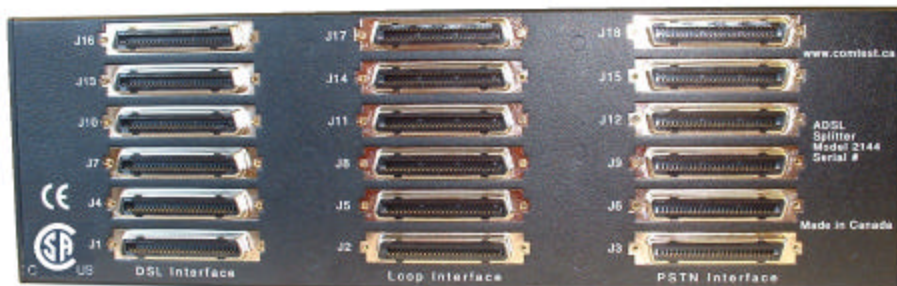


Grounding

To comply with the Network Equipment Building Systems (NEBS) requirements, a suitable ground must be provided. The 2144 can be grounded to the rack through the mounting brackets, eliminating the need for separate a ground wire.

Cabling Overview

The 2144 Splitter Shelf cabling configurations will vary depending on installation locations and the number of lines supported by the DSLAM. However, the physical interface to the back plane connectors are standard 50-pin telephone-type receptacle connectors. Each Splitter card uses 24 pairs of the 25 pairs available on each 50-pin connector.



The DSL Interface connectors (J1, J4, J7, J10, J13, & J16) and the LOOP Interface connectors (J2, J5, J8, J11, J14, & J17) are oriented so that the mating plug left-angled cable head will dress out to the left side of the shelf. Whereas, the PSTN Interface connectors (J3, J6, J9, J12, J15, & J18) are oriented so that the mating plug right angled cable head will dress out to the right side of the shelf.

Connector Pinouts

As view from the rear of the shelf:

- ADSL signals to and from the DSLAM enter the 2144 splitter shelf using the left most telephone connectors, designated "DSL Interface".

- Signals to and from the LINE (outside plant) enter the 2144 splitter shelf using the centre telephone connectors, designated “Loop Interface”.
- Cables to and from the central office switch enter the 2144 splitter shelf via the right hand telephone connectors, designated “PSTN Interface”.

| Filter No. | ADSL Connector | | LINE Connector | | PSTN Connector | |
|------------|----------------|------|----------------|------|----------------|------|
| | Tip | Ring | Tip | Ring | Tip | Ring |
| 1 | 26 | 1 | 26 | 1 | 26 | 1 |
| 2 | 27 | 2 | 27 | 2 | 27 | 2 |
| 3 | 28 | 3 | 28 | 3 | 28 | 3 |
| 4 | 29 | 4 | 29 | 4 | 29 | 4 |
| 5 | 30 | 5 | 30 | 5 | 30 | 5 |
| 6 | 31 | 6 | 31 | 6 | 31 | 6 |
| 7 | 32 | 7 | 32 | 7 | 32 | 7 |
| 8 | 33 | 8 | 33 | 8 | 33 | 8 |
| 9 | 34 | 9 | 34 | 9 | 34 | 9 |
| 10 | 35 | 10 | 35 | 10 | 35 | 10 |
| 11 | 36 | 11 | 36 | 11 | 36 | 11 |
| 12 | 37 | 12 | 37 | 12 | 37 | 12 |
| 13 | 38 | 13 | 38 | 13 | 38 | 13 |
| 14 | 39 | 14 | 39 | 14 | 39 | 14 |
| 15 | 40 | 15 | 40 | 15 | 40 | 15 |
| 16 | 41 | 16 | 41 | 16 | 41 | 16 |
| 17 | 42 | 17 | 42 | 17 | 42 | 17 |
| 18 | 43 | 18 | 43 | 18 | 43 | 18 |
| 19 | 44 | 19 | 44 | 19 | 44 | 19 |
| 20 | 45 | 20 | 45 | 20 | 45 | 20 |
| 21 | 46 | 21 | 46 | 21 | 46 | 21 |
| 22 | 47 | 22 | 47 | 22 | 47 | 22 |
| 23 | 48 | 23 | 48 | 23 | 48 | 23 |
| 24 | 49 | 24 | 49 | 24 | 49 | 24 |

Warranty

Comtest warrants all equipment manufactured by it and bearing its nameplate to be free from defects in workmanship and materials, during normal use and service, for a period of three (3) years from the date of shipment. In the event that a defect in any such equipment arises within the warranty period it shall be the responsibility of the customer to return the equipment by prepaid transportation to a Comtest service centre prior to the expiration of the warranty period for the purpose of allowing Comtest to inspect and repair the equipment. If inspection by Comtest discloses a defect in workmanship or material it shall, at its option, repair or replace the equipment without cost to the customer, and thereafter return it to the customer by the least expensive mode of transportation the cost of which shall be prepaid by Comtest. In no event shall this warranty apply to equipment which has been modified without the written authorization of Comtest, or which has been subject to abuse, neglect, accident or improper application. If inspection by Comtest discloses that the repairs that must be made on the equipment are not covered by this warranty, the regular repair charges shall apply to any repairs made to the equipment.

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